

Take out:
Bonus assignment
8.2 Worksheets

8-3 Tests for Parallelograms



$$\begin{aligned} 1. \quad & 2y = 8 \\ & y = 4 \\ & 2x - 2 = 12 \\ & x = 7 \end{aligned}$$

$$\begin{aligned} 2. \quad & 11x = 55 \\ & x = 5 \\ & 5y = 125 \\ & y = 25 \end{aligned}$$

$$\begin{aligned} 4. \quad 9x &= 45 \\ x &= 5 \end{aligned}$$

$$\begin{aligned} 18 &= 6y \\ 3 &= y \end{aligned}$$

$$\begin{aligned} 5. \quad 2x &= 30 \\ x &= 15 \end{aligned}$$

$$\begin{aligned} 15 + y &= 24 \\ y &= 9 \end{aligned}$$

$$\begin{aligned} 6. \quad 6y &= 90 \\ y &= 15 \\ 3x &= 90 \\ x &= 30 \end{aligned}$$

Slope \rightarrow || lines

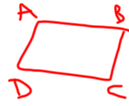
Distance $\rightarrow \cong$
Formula

Midpoint \rightarrow Diagonal
Formula Bisect

1. $A(0,0)$ $B(1,3)$ $C(5,3)$ $D(4,0)$

Is ABCD a ?

Slope formula




$$\overline{AB} \parallel \overline{DC} ? \quad m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$\overline{BC} \parallel \overline{AD} ? \quad \overline{AB} \quad m = \frac{3-0}{1-0} = 3 \quad \checkmark$$

$$\overline{BC} \quad m = \frac{3-3}{5-1} = 0 \quad \checkmark$$

$$\overline{AD} \quad m = \frac{0-0}{4-0} = 0 \quad \checkmark \quad \overline{DC} \quad m = \frac{3-0}{5-4} = 3 \quad \checkmark$$

ABCD is a .

#3

Is RSTU a ?

Dist. Formula

$$\overline{RS} \cong \overline{UT} ? \quad RS = \sqrt{(3-1)^2 + (0-0)^2}$$

$$\overline{RU} \cong \overline{ST} ? \quad RS = 4$$

Not a .

$$UT = \sqrt{(-3-2)^2 + (-2+3)^2} = \sqrt{25 + 1}$$

5.

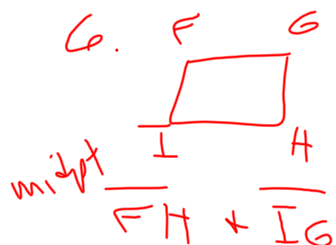
Is STUV a ?

$$\overline{ST} + \overline{UV} \cong +11?$$

$$\text{or} \quad \overline{SV} + \overline{TU} \cong +11?$$

$$\overline{ST} \quad m = -5$$

$$\overline{UV} = \sqrt{26}$$



p421-422
13-20, 22, 25-29